

## Atlantic Intracoastal Waterway General Information

Accommodations including complete supply and repair facilities together with hotels, restaurants, and other attractions are located along the Hampton Roads Ports, the Dismal Swamp Canal, and the Albemarle and Chesapeake Canal. Excellent anchorage and docks are available in Chesapeake, Virginia and Elizabeth City, North Carolina. Bridge and Lock operators in Hampton Roads, Virginia, monitor marine radio channel 13. Additional information on the Atlantic Intracoastal Waterway, including bridge and lock information, can be found at [www.cruiseguides.com](http://www.cruiseguides.com).

## Dismal Swamp Canal Traveling Information

Maintained to a depth of 6 feet, however, boaters should verify the latest channel conditions. Our locks and bridges have minimum operating staff on duty from 8:00 a.m. to 4:30 p.m., 7 days a week, 365 days a year.

Deep Creek and South Mills Locks normal operating schedule is: openings at 8:30 a.m., 11:00 a.m., 1:30 p.m., and 3:30 p.m., 7 days a week, 365 days a year. The schedule is subject to change during droughts or adverse weather conditions; call to confer before transiting the canal.

Drawbridges at Deep Creek and South Mills are unmanned and open in conjunction with the lock operating schedule. The lock operator also serves as bridge operator, therefore cannot be in both locations at the same time. Some delays in the opening can be expected, as they will be coordinated with the adjacent locks. Deep Creek Lock and Bridge operators can be reached at (757) 487-0831, the South Mills Lock and Bridge operators can be reached at (252) 771-5906 or marine radio channel 13.

Boats can anchor or moor overnight in canal; limited tie-up facilities are located along the canal.

The Dismal Swamp Canal Visitor Center, built by the North Carolina Department of Transportation, is located near mile marker 28 on the canal. The Visitor Center has a variety of published brochures and pamphlets with information on accommodations and attractions, 150' dock, canoe/kayak launch, restrooms, vending machines, picnic tables, and grills. Call (252) 771-8333 or visit [www.dismalswamp.com](http://www.dismalswamp.com) for additional Visitor Center information.

## Albemarle and Chesapeake Canal Traveling Information

Maintained to a depth of 12 feet, however, boaters should verify the latest channel conditions. Our lock and bridge have operating staff on duty 24 hours a day, 7 days a week, 365 days a year.

Great Bridge Lock opens on demand, but works in conjunction with the Great Bridge Bridge openings. The schedule is subject to change during adverse weather conditions. The Great Bridge Bridge is operated by the City of Chesapeake. It opens every hour from 6:00 a.m. to 7:00 p.m. and on demand after 7:00 pm. Great Bridge Lock operators can be reached at (757) 547-3311 or marine radio channel 13.

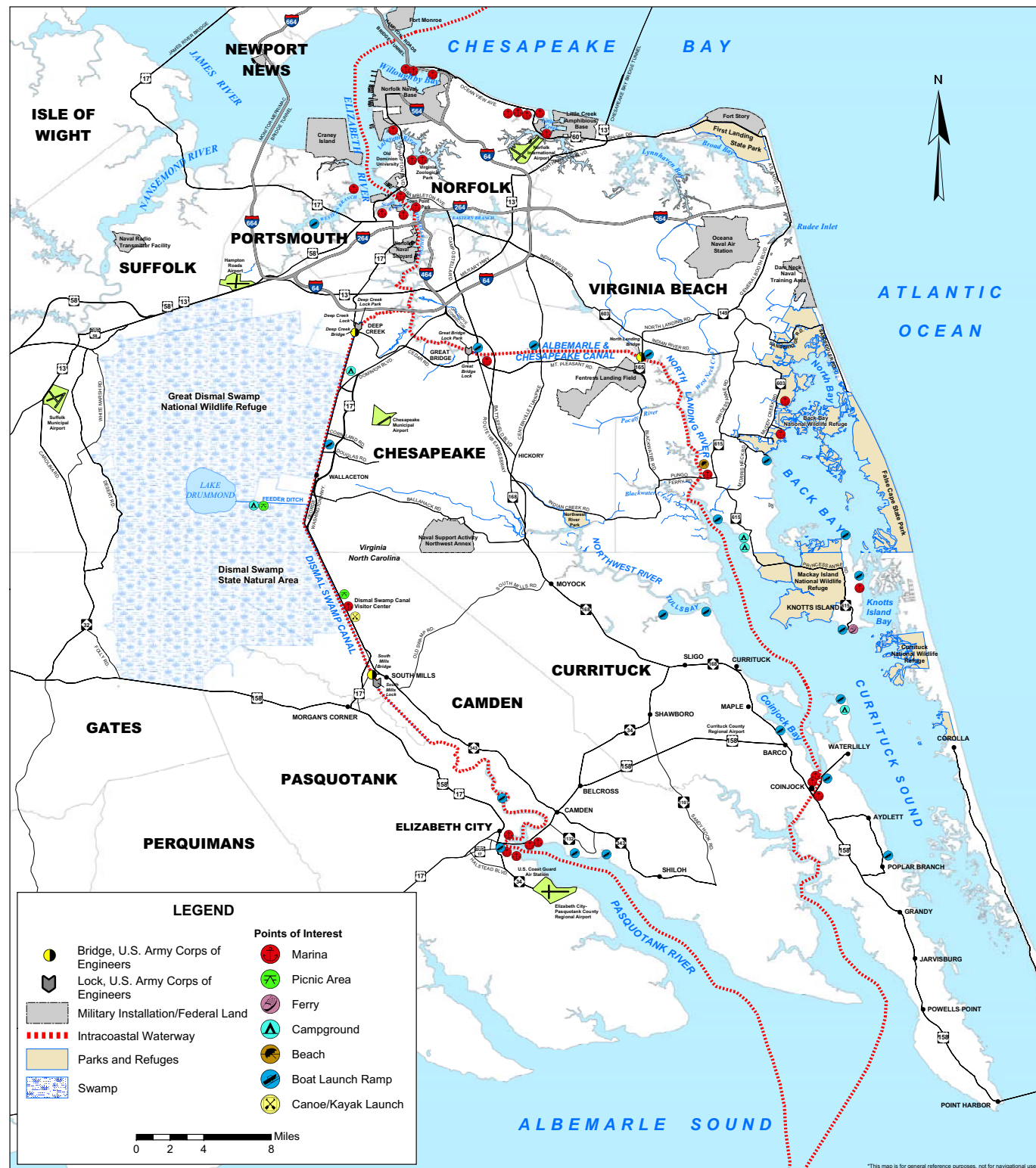
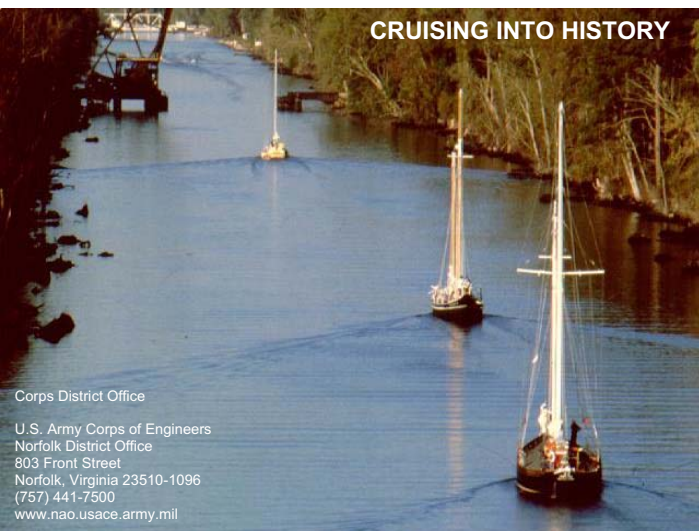
North Landing Bridge opens every hour and half hour from 6:00 a.m. to 7:00 p.m. and on demand at all times for commercial traffic and after 7:00 pm. North Landing Bridge operators can be reached at (757) 482-3081 or marine radio channel 13.



**US Army Corps  
of Engineers®**  
Norfolk District

**The Atlantic Intracoastal Waterway's  
Dismal Swamp Canal, Virginia and  
North Carolina, and Albemarle and  
Chesapeake Canal, Virginia**

## CRUISING INTO HISTORY





# Historic Canals

The Dismal Swamp Canal and the Albemarle and Chesapeake Canal form alternative routes along the Atlantic Intracoastal Waterway between the Chesapeake Bay and Albemarle Sound. The canals and the rest of the waterway are maintained and cared for by the United States Army Corps of Engineers. The AIWW provides pleasure boaters and commercial shippers with a protected inland channel between Norfolk, Virginia and Miami, Florida. The history of these two canals, which contain the only locks along the AIWW, paints a vivid picture of the development of transportation that goes back over two hundred years. It is also a fascinating tale rich in folklore and literature.



Dismal Swamp Canal

canal stole away a significant amount of the commercial shipping. This occurred in the years following 1899, when the Dismal reopened after being entirely rebuilt at a cost of over one million dollars. The triumph was short-lived, however.

The final blow was delivered when the United States government chose to buy the Albemarle and Chesapeake in 1913. Both canals were considered for purchase, along with building one of the two new routes, as part of the government's plan to establish a continuous inland waterway as provided for in the River and Harbor Act of 1910. The Albemarle and Chesapeake Canal had defaulted on a bank loan and was sold at foreclosure in 1910. Three years later it sold for only half a million dollars.

Following the sale, the U.S. Army Corps of Engineers went to work making improvements, and the Albemarle and Chesapeake was made toll free. For the next sixteen years, in a reversal of roles, the Dismal Swamp Canal wavered on the edge of bankruptcy. Finally, in 1929, the government also purchased the Dismal in an act of fairness.

Today, the Albemarle and Chesapeake Canal is traveled mostly by commercial craft while the Dismal Swamp Canal is frequented by recreational boaters. As a suggestion, try making a two-day trip: up one canal and down the other with an overnight stay in Elizabeth City. This friendly city on the narrows of the Pasquotank River is also an historical treasure. Its location near the Dismal Swamp Canal makes it the major southern trans-shipment point for cargoes heading to and from the Chesapeake Bay along the canal. While there, be sure to stop at the Mariner's Wharf city docks for a visit with the famous Rose Buddies, the town's self-appointed welcoming committee for visiting cruisers. The city's historical district is a short walk from the docks.



Tour Boat on Dismal Swamp Canal

## The Dismal Swamp and the Albemarle and Chesapeake Canals

Over two hundred years ago, as it is today, transportation was the lifeblood of the North Carolina sounds region and the Tidewater areas of Virginia. The landlocked sounds were entirely dependent upon poor overland tracks or shipment along treacherous Carolina coast to reach further markets through Norfolk.

To reach the first to propose the "advantage of making a channel to transport by water-carriage goods from Albemarle Sound into Nansmond and Elizabeth River" was Colonel William Byrd II of Virginia in 1728. He had just returned from making a survey of the Virginia-North Carolina border for the English Crown. During the expedition, he and his party had to struggle through the dense undergrowth and forests of the great swamp. Byrd, finding the place repulsive, is said to be responsible for the addition of "Dismal" to the name.

It would be nearly 60 years, following the Revolutionary War, before a canal was begun. The new nation desperately needed good roads connecting the isolated towns and villages with larger cities. If the country was to grow and prosper, an effective means of internal transportation had to be developed. Both George Washington and Patrick Henry felt that canals were the easiest answer and favored a route through the Dismal Swamp. Although Washington was not involved in the canal's construction, he was familiar with the region. He and a group of business "adventurers" owned some 50,000 acres in the Dismal Swamp that they were logging. Washington Ditch, a separate cut through the swamp, was built to transport their timber. The remnants of it are still visible today.

Finally, in 1793, construction began on both ends of the Dismal Swamp Canal. The canal had to be dug completely by hand so progress was slow and expensive. Most of the labor was done by slaves hired from nearby landowners. It is interesting to note that the slaves became so familiar with the swamp during this period that it eventually became a haven for runaways. Later, in the anti-slavery era prior to the Civil War, "Harper's Weekly" artist David Strother visited the area and reported that there were large colonies of runaway slaves in some sections of the swamp. Harriet Beecher Stowe patterned her main character in the novel, "Dred: A Tale of the Great Dismal Swamp," on one of Strother's sketches. Henry Wadsworth Longfellow was inspired to pen his poem, "The Slave in the Dismal Swamp," based on Stowe's character.

By 1796, the costs of building the canal had far exceeded the projected estimates. The company halted work and began a road to connect the two canal sections. The road was completed in 1802. The famous Irish poet, Sir Thomas Moore, visited the area soon after and immortalized "The Lake of the Great Dismal" in a ballad about a legendary love affair.

The completed canal would eventually open in 1805, twelve years after it was begun. Because it was so shallow, its use was limited to flat boats and log rafts that were manually poled or towed through. Shipments consisted mainly of logs, shingles, and other wood products taken from the swamp's great stands of cedar and juniper. Needless to say, this was a far cry from what farmers, lumbermen and merchants originally envisioned as a regional trade route. Throughout its history, the Dismal Swamp Canal has experienced hard times.



The owners would give up trying to maintain it, let it fall into disrepair and eventually sell it. The maintenance problems were the result of flaws in the canal's original concept and design. Water levels between its beginnings in Deep Creek and its original end in Joyce's Creek were not correctly measured. This left the canal without an adequate source of water and subject to natural rainfall and drainage conditions. Even with the feeder ditch built to supply water from Lake Drummond, the canal was still dry in periods of low rainfall and drought. The problem remains, even today. To preserve water levels in the federally protected Great Dismal Swamp National Wildlife Refuge, the feeder ditch is periodically shut off during dry spells. This prevents the canal from draining waters of the swamp and damaging its fragile ecosystem.

The Dismal Swamp Canal is the oldest operating artificial waterway in the United States. It is also rich in history and folklore. Visitors and canal navigators travel where famous explorers and presidents have stood and literary greats have been inspired for over two hundred years. For example, astride the two states' border is the site where the infamous "Halfway House" hotel was built in the late 1820's. The hotel was a popular spot for marriages, duels and those escaping the law. Since the hotel was on the state line, this last group simply walked to the other side of the hotel to avoid being captured in either state. It is also said that Edgar Allen Poe wrote "The Raven" during one of his stays at the hotel. And, as you follow the canal, you retrace the course of James Adams' Floating Theatre, where Edna

Ferber got the idea to write the novel "Showboat" upon which the famous musical is based.

Today, the Dismal Swamp Canal is on the National Register of Historic Places as a Historic Landmark, and is also noted as a National Historic Civil Engineering Landmark. In February 2004, the Dismal Swamp Canal was included in the National Park Service's Underground Railroad Network to Freedom Program. It is maintained by The U.S. Army Corps of Engineers as a navigational resource along the Atlantic Intracoastal Waterway.

## The Albemarle and Chesapeake Canal

The second headwater canal is the Albemarle and Chesapeake. First authorized in 1772, fifteen years prior to the Dismal Swamp Canal, its early history can be characterized as all "acts" and no action. No less than ten acts were passed in both Virginia and North Carolina over a period of 83 years before construction finally began in 1855.

By that time, however, the Dismal Swamp Canal was firmly established. The state of Virginia owned quite a bit of stock in the canal company and a new canal was viewed as a competitive threat. The man who carefully put the pieces together to begin the canal was Tidewater Virginian, Marshall Parks, Jr. Parks' father had been superintendent and chief engineer of the Dismal Swamp Canal during its first major period of reconstruction in the late 1820's. The younger Parks had also been an official with the Dismal Swamp Company and was thoroughly familiar with the canal's problems. He visualized the Albemarle and Chesapeake Canal as

the answer to more efficient commercial trade between the two regions. The new canal would be wider and deeper than most of others of its day. Parks planned for it to handle the larger steamers and future growth. It would also have only one lock, instead of the Dismal's then seven, considerably reducing passage time.

Construction of the Albemarle and Chesapeake Canal was accomplished by seven steam dredges on floating platforms. Had an attempt been made to dig the canal prior to steam-powered technology, it would have failed. The dredges had to gouge the canal out of low-lying muddy ground, scooping up huge tree trunks and petrified logs that lay beneath the surface. When the canal was finished in 1859, it was an engineering marvel. It consisted of only one lock and two relatively short man-made channels, the Virginia Cut and the North Carolina Cut. The single lock, which balanced lunar tides of the southern branch of the Elizabeth River with the wind driven ones of the North Landing River and Currituck Sound, was 40 feet wide and 220 feet long, the longest along the Atlantic coast and the second largest in the entire U.S. The reversible gate heads, allowing ships to lock up or down depending on water levels, were probably the first of their kind. In addition, four times a day when the levels were equal and the winds favorable, the gates were left open to permit clear passage.

The opening of the Albemarle and Chesapeake Canal gave the Dismal Swamp Canal serious competition. The two coexisted for fifty-four years, with the Albemarle and Chesapeake carrying most of the traffic. There was only a short period when the older



Feeder Ditch



AIWW Information Available From Other Districts:		
Information similar to that contained in this brochure may be obtained for other portions of the Atlantic Intracoastal Waterway by addressing the following Districts of the Corps of Engineers.		
Section of Waterway	District	
FROM	TO	
Virginia-North Carolina State Line, Beacon No. 63, North Landing River	Little River, South Carolina	Wilmington District Corps of Engineers P.O. Box 1890 Wilmington, NC 28402-1890 www.saw.usace.army.mil
Little River, South Carolina	Beaufort, South Carolina	Charleston District Corps of Engineers 69-A Hagood Avenue Charleston, SC 29403-5107 www.sac.usace.army.mil
Beaufort, South Carolina	Fernandina, Florida	Savannah District Corps of Engineers P.O. Box 889 Savannah, GA 31402-0889 www.sas.usace.army.mil
Fernandina, Florida	Key West, Florida	Jacksonville District Corps of Engineers 701 San Marco Blvd Jacksonville, FL 32207 www.saj.usace.army.mil

## THE DISMAL SWAMP CANAL

- 1728 Colonel William Byrd II first proposes a canal.
- 1787 Virginia authorizes canal construction.
- 1790 North Carolina authorizes canal construction.
- 1793 The Dismal Swamp Canal Company begins digging.
- 1804 The causeway road opens, eventually becoming U.S. 17.
- 1805 The full length of the canal opens.
- 1812 The Feeder Ditch supplying water is cut. Number of locks is expanded from two to five or six.
- 1814 A 20-ton decked vessel passes for the first time.
- 1818 President James Monroe visits.
- 1820 Canal built connecting Dismal Swamp to Northwest River and Currituck Sound. Some remnants still exist.
- 1827-1829 Canal widened and deepened. Locks converted from wood to stone. President Andrew Jackson visits. Lake Drummond Hotel, the "Halfway House," opens.
- 1843 Gilmerston Canal, no longer in use, is made north of Deep Creek.
- 1856 Turner's Cut completed, eliminating twists of Joyce's Creek.
- 1859 Albemarle and Chesapeake Canal opens.
- 1861-1865 Civil War takes toll on both canals. Ships sunk in Albemarle and Chesapeake Canal to block.
- 1866 Passenger service starts in Dismal Swamp Canal. Company is nearly bankrupt, canal deteriorates, and assets are sold.
- 1878 Lake Drummond Canal & Water Company takes over.
- 1896-1899 Major improvements made, locks cut to two. The United States Government is in the process of establishing a toll-free inland waterway along the East Coast.
- 1913 U.S. Army Corps of Engineers takes over the Albemarle and Chesapeake Canal.
- 1925 Congress authorizes purchase of Dismal Swamp Canal.
- 1929 Purchase is finally made for the same price as the Albemarle and Chesapeake Canal, \$500,000.
- 1933 Canal Dredged to 50 feet wide, 9 feet deep.
- 1934 New U.S. 17 drawbridges completed at Deep Creek and South Mills.
- 1935 New Control spillway built on feeder ditch.
- 1940-1941 New concrete and steel locks built at Deep Creek and South Mills.
- 1974 Great Dismal Swamp National Wildlife Refuge established by Congress. Navigational needs of the canal are made secondary to water

- conservation needs of the swamp.
- 1988 Dismal Swamp Canal placed on the National Register of Historic Places, and is also noted as a Historic Civil Engineering Landmark.
- 2000 Deep Creek Lock chamber dewatered and major repairs performed to the lock and gates.
- 2004 Dismal Swamp Canal included in the National Park Service's Underground Railroad Network to Freedom Program.

## THE ALBEMARLE AND CHESAPEAKE CANAL

- 1772 Virginia passes the original act authorizing the canal.
- 1774 Two separate feasibility and cost studies made on canal routes.
- 1776 Revolutionary War delays action.
- 1793 Construction begins on the Dismal Swamp Canal, eliminating the immediate need for the Albemarle and Chesapeake Canal.
- 1809 Another act passed in Virginia incorporating "The Great Coastwise Canal and River Navigation Company" to cut the canal.
- 1812 The War of 1812 delays further action.
- 1812-1854 Numerous acts passed establishing companies and enabling construction. Lack of interest and funds caused further delays.
- 1855 Construction begins at last.
- 1859 Canal is completed and steamboat service begins. Plans are already underway to deepen the canal from six to eight feet.
- 1862 Both Confederate and Union forces sink ships in North Carolina Cut to blockade the canal.
- 1865-1866 Great Bridge Lock closed for three months due to leakage.
- 1873 New iron gates replace wooden ones at Great Bridge.
- Late 1870's First suggestions made that the federal government take over the canal, make improvements and provide an inland waterway.
- 1913 United States buys Albemarle and Chesapeake Canal for \$500,000 as part of its inland waterway plans.
- 1917 Lock gates removed at Great Bridge to allow passage of larger ships.
- 1932 New lock, built by U.S. Army Corps of Engineers, opens.
- 1992 Great Bridge Lock Area bulkheads and fender system upgraded.
- 2004 Great Bridge replaced and operations taken over by the City of Chesapeake.
- 2004 Albemarle and Chesapeake Canal placed on National Register of Historic Places.



## The Corps of Engineers and Navigation

Established in the earliest days of our nation as part of the Continental Army, the Army engineers blazed trails for westward migration and cleared waterways and harbors for commerce. Today, the U.S. Army Corps of Engineers is engaged in flood control, hydropower production, shore protection and restoration, water supply, disaster assistance, fish and wildlife management, recreation and navigation projects such as the Atlantic Intracoastal Waterway.

Corps facilities are carefully planned to promote the use of project land and water while conserving the natural environment.



Deep Creek Lock